

Upcoming Space Shuttle Missions

Updated Feb. 22, 2005 (replaces Feb. 10)

Compiled by Bruce Buckingham, KSC PA

STS MISSION No. (nth Shuttle flight)	STS-114 (114)	STS-121 (115)	STS-115 (116)	STS-116 (117)
Orbiter (nth flight of orbiter)	Discovery/OV-103 (31)	Atlantis/OV-104 (27)	TBD	TBD
Primary Mission	17th ISS flight (LF1) -- MPLM	18th ISS flight (ULF-1.1) -- crew rotation	19th ISS flight (12A) -- P3/P4 arrays	20th ISS flight (12A.1) -- SPACEHAB
**Launch Planning Window (Pad)	*May 15 – June 3, 2005 39B	*July 12 – July 31, 2005 39B	TBD 39B	TBD 39B
Estimated Launch Window	5-10 minutes	5-10 minutes	5-10 minutes	5-10 minutes
KSC Landing Date	TBD	TBD	TBD	TBD
Mission Duration	12 days	11 days	11 days	12 days
Inclination/Orbital Insertion Altitude	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles
Crew (Shuttle flight number)	Cdr: Eileen Collins (4) Plt: James Kelly (2) MS: Soichi Noguchi (JAXA) (1) MS: Stephen Robinson (3) MS: Andrew Thomas (4) MS: Wendy Lawrence (4) MS: Charles Camarda (1)	Cdr: Steven W. Lindsey (4) Plt: Mark E. Kelly (2) MS: Piers J. Sellers (2) MS: Michael E. Fossum (1) MS: Lisa Nowak (1) MS: Stephanie Wilson (1)	Cdr: Brent Jett (4) Plt: Christopher Ferguson (1) MS: Joseph Tanner (4) MS: Daniel Burbank (2) MS: Steven MacLean (CSA) (2) MS: Heidemarie Stefanyshyn-Piper (1)	Cdr: Mark Polansky (2) Plt: William Oefelein (1) MS: Robert Curbeam (3) MS: Joan Higginbotham (1) MS: Nicholas Patrick (1) MS: Christer Fuglesang (ESA) (1)

**** Official launch dates are set at the Flight Readiness Review.**

*** Change from earlier update.**

All Times are Eastern

ASI = Italian Space Agency **Cdr** = Commander **CNES** = French Space Agency **CSA** = Canadian Space Agency **ESA** = European Space Agency **ISA** = Israel Space Agency **ISS** = International Space Station **ITS** = Integrated Truss Structure segment **MPLM** = Multi-Purpose Logistics Module **MS** = Mission Specialist **MT** = Mobile Transporter **NASDA** = National Space Development Agency of Japan **NET** = no earlier than **OV** = Orbiter Vehicle **PC** = Payload Commander **Plt** = Pilot **PS** = Payload Specialist **RSA** = Russian Aviation and Space Agency **TBD** = to be determined **UF** = utility/utilization flight **ULF** = utilization and logistics flight **U/R** = under review